BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

YELAHANKA ZONE

MEASUREMENTS

Name of work:-

Improvements to roads and drains of kempapura janatha colony and surrounding areas in ward no.07 Byataranapura.

Est cost:- ₹5.00 Lakhs

1) Cement - 02-01-20
2) 40mm - 02-01-20
3) 20mm - 02-01-20
4) Sand - 02.01.20
5) Steel - 02-01-20
6) Slab - 12.02.20
7) Kerb - 18.02.20
8) Drain bottom - 16.01.20-13/r
9) Drain sidewall - 17/01.20 - 14/r
10) Lintel. - 22/1/2 20/r

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BRUHAT BANGALORE MAHANAGARA PALIKE

MEASURMENT SHEETS

Name of the work :- Improvements to roads and drains of kempapura janatha colony and surrounding areas in ward no.07 Byataranapura.

Name of Agency : M/S KRIDL

Item No:- 1	
Item name:-	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Pg No.140.Item No.18.47)

L No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
	Date of Mreasurments							
	Vayunandana Layout							
	4th cross							
	Ch 0.00m to 15.00m		1	15.00	(5.4+4.7)/2	0.30	22.73	
	Ch 15.00m to 30.00m		1	15.00	(4.7+5.7)/2	0.30	23.40	
	Ch 30.00m to 45.00m		1	15.00	(5.7+5.1)/2	0.30	24.30	
	Ch 45.00m to 60.00m		1	15.00	(5.1+4.3)/2	0.30	21.15	
	Ch 60.00m to 76.00m		1	16.00	(4.3+3.3)/2	0.30	18.24	
	2nd cross							
	Ch 0.00m to 15.00m		1	15.00	(4.4+4.0)/2	0.30	18.90	
	Ch 15.00m to 30.00m		1	15.00	(4.0+4.4)/2	0.30	18.90	
	Ch 30.00m to 45.00m		1	15.00	(4.4+4.8)/2	0.30	20.70	
	Ch 45.00m to 60.00m		1	15.00	(4.8+4.9)/2	0.30	21.83	
	Ch 60.00m to 75.00m		1	15.00	(4.9+4.2)/2	0.30	20.48	
	Ch 75.00m to 86.00m		1	11.00	(4.2+4.8)/2	0.30	14.85	

225.48

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

AE(KRIDL)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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	Jakkur layout							
	11th B cross							
	Ch 0.00m to 15.00m		1	15.00	(5.9+4.3)/2	0.30	22.95	
	Ch 15.00m to 30.00m		1	15.00	(4.3+3.2)/2	0.30	16.88	
	Ch 30.00m to 45.00m		1	15.00	(3.2+3.0)/2	0.30	13.95	
	Ch 45.00m to 60.00m		1	15.00	(3.0+3.3)/2	0.30	14.18	
	Ch 60.00m to 75.00m		1	15.00	(3.3+3.4)/2	0.30	15.08	
	Ch 75.00m to 90.00m		1	15.00	(3.4+3.2)/2	0.30	14.85	
	Ch 90.00m to 105.00m		1	15.00	(3.2+3.7)/2	0.30	15.53	
	Ch 105.00m to 120.00m		1	15.00	(3.7+3.3)/2	0.30	15.75	
	Ch 120.00m to 135.00m		1	15.00	(3.3+3.1)/2	0.30	14.40	
	Ch 135.00m to 142.00m		1	7.00	(3.1+3.2)/2	0.30	6.62	
	Amruthalli 4th Cross							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.9)/2	0.30	18.00	
	Ch 15.00m to 30.00m		1	15.00	(3.9+4.1)/2	0.30	18.00	
	Ch 30.00m to 38.00m		1	8.00	(4.1+4.3)/2	0.30	10.08	
	Cross Road							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.8)/2	0.30	17.78	
	Ch 15.00m to 30.00m		1	15.00	(3.8+4.0)/2	0.30	17.55	
	Ch 30.00m to 40.00m		1	10.00	(4.0+3.8)/2	0.30	11.70	
		cum			**Net Qty**		**468.74**	243.30

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
Sub Division,
Zone, B.B.M.P.,
Bangalore.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

AE(NSH)

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Item No:- 2	
Item name:-	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. (Pg No.143.Item No.19.1)

No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
	Date of Mreasurments							
	Vayunandana Layout							
	4th cross							
	Ch 0.00m to 15.00m		1	15.00	(5.4+4.7)/2	0.30	22.73	
	Ch 15.00m to 30.00m		1	15.00	(4.7+5.7)/2	0.30	23.40	
	Ch 30.00m to 45.00m		1	15.00	(5.7+5.1)/2	0.30	24.30	
	Ch 45.00m to 60.00m		1	15.00	(5.1+4.3)/2	0.30	21.15	
	Ch 60.00m to 76.00m		1	16.00	(4.3+3.3)/2	0.30	18.24	
	2nd cross							
	Ch 0.00m to 15.00m		1	15.00	(4.4+4.0)/2	0.30	18.90	
	Ch 15.00m to 30.00m		1	15.00	(4.0+4.4)/2	0.30	18.90	
	Ch 30.00m to 45.00m		1	15.00	(4.4+4.8)/2	0.30	20.70	
	Ch 45.00m to 60.00m		1	15.00	(4.8+4.9)/2	0.30	21.83	
	Ch 60.00m to 75.00m		1	15.00	(4.9+4.2)/2	0.30	20.48	
	Ch 75.00m to 86.00m		1	11.00	(4.2+4.8)/2	0.30	14.85	
	Jakkur layout							
	11th B cross							
	Ch 0.00m to 15.00m		1	15.00	(5.9+4.3)/2	0.30	22.95	
	Ch 15.00m to 30.00m		1	15.00	(4.3+3.2)/2	0.30	16.88	
	Ch 30.00m to 45.00m		1	15.00	(3.2+3.0)/2	0.30	13.95	
	Ch 45.00m to 60.00m		1	15.00	(3.0+3.3)/2	0.30	14.18	
	Ch 60.00m to 75.00m		1	15.00	(3.3+3.4)/2	0.30	15.08	
	Ch 75.00m to 90.00m		1	15.00	(3.4+3.2)/2	0.30	14.85	
	Ch 90.00m to 105.00m		1	15.00	(3.2+3.7)/2	0.30	15.53	
	Ch 105.00m to 120.00m		1	15.00	(3.7+3.3)/2	0.30	15.75	
	Ch 120.00m to 135.00m		1	15.00	(3.3+3.1)/2	0.30	14.40	
	Ch 135.00m to 142.00m		1	7.00	(3.1+3.2)/2	0.30	6.62	375.67

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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	Amruthalli 4th Cross							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.9)/2	0.30	18.00	
	Ch 15.00m to 30.00m		1	15.00	(3.9+4.1)/2	0.30	18.00	
	Ch 30.00m to 38.00m		1	8.00	(4.1+4.3)/2	0.30	10.08	
	Cross Road							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.8)/2	0.30	17.78	
	Ch 15.00m to 30.00m		1	15.00	(3.8+4.0)/2	0.30	17.55	
	Ch 30.00m to 40.00m		1	10.00	(4.0+3.8)/2	0.30	11.70	
	Amruthalli Remaining							
	LHS							
	CH 0.00m to 30.00m		1	30.00	1.20	1.20	43.20	
	CH 30.0m to 60.00m		1	30.00	1.20	1.20	43.20	
	CH 60.00m to 90.00m		1	30.00	1.20	1.20	43.20	
	CH 90.00m to 120.00m		1	30.00	1.20	1.20	43.20	
	CH 120.00m to 150.00m		1	30.00	1.20	1.20	43.20	
	CH 150.00m to 170.00m		1	20.00	1.20	1.20	28.80	
	RHS							
	CH 0.00m to 30.00m		1	30.00	1.20	1.20	43.20	
	CH 30.0m to 60.00m		1	30.00	1.20	1.20	43.20	
	CH 60.00m to 90.00m		1	30.00	1.20	1.20	43.20	
	CH 90.00m to 120.00m		1	30.00	1.20	1.20	43.20	
	CH 120.00m to 150.00m		1	30.00	1.20	1.20	43.20	
	CH 150.00m to 161.00m		1	11.00	1.20	1.20	15.84	
	Over burden earth		1	5.00	1.50	0.90	6.75	
		cum			**Net Qty**		**952.13**	

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

AE(KRI)

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Item No:- 4	
Item name:-	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.13, It.4.3)

No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
	Date of Mreasurments							
	Vayunandana Layout							
	4th cross							
	Ch 0.00m to 15.00m		1	15.00	(5.4+4.7)/2	0.15	11.36	
	Ch 15.00m to 30.00m		1	15.00	(4.7+5.7)/2	0.15	11.70	
	Ch 30.00m to 45.00m		1	15.00	(5.7+5.1)/2	0.15	12.15	
	Ch 45.00m to 60.00m		1	15.00	(5.1+4.3)/2	0.15	10.58	
	Ch 60.00m to 76.00m		1	16.00	(4.3+3.3)/2	0.15	9.12	
	2nd cross							
	Ch 0.00m to 15.00m		1	15.00	(4.4+4.0)/2	0.15	9.45	
	Ch 15.00m to 30.00m		1	15.00	(4.0+4.4)/2	0.15	9.45	
	Ch 30.00m to 45.00m		1	15.00	(4.4+4.8)/2	0.15	10.35	
	Ch 45.00m to 60.00m		1	15.00	(4.8+4.9)/2	0.15	10.91	
	Ch 60.00m to 75.00m		1	15.00	(4.9+4.2)/2	0.15	10.24	
	Ch 75.00m to 86.00m		1	11.00	(4.2+4.8)/2	0.15	7.43	NDD AE(Rsd) 10/1/2020
	Jakkur layout							
	11th B cross							
	Ch 0.00m to 15.00m		1	15.00	(5.9+4.3)/2	0.15	11.48	
	Ch 15.00m to 30.00m		1	15.00	(4.3+3.2)/2	0.15	8.44	
	Ch 30.00m to 45.00m		1	15.00	(3.2+3.0)/2	0.15	6.98	
	Ch 45.00m to 60.00m		1	15.00	(3.0+3.3)/2	0.15	7.09	
	Ch 60.00m to 75.00m		1	15.00	(3.3+3.4)/2	0.15	7.54	
	Ch 75.00m to 90.00m		1	15.00	(3.4+3.2)/2	0.15	7.43	
	Ch 90.00m to 105.00m		1	15.00	(3.2+3.7)/2	0.15	7.76	
	Ch 105.00m to 120.00m		1	15.00	(3.7+3.3)/2	0.15	7.88	
	Ch 120.00m to 135.00m		1	15.00	(3.3+3.1)/2	0.15	7.20	
	Ch 135.00m to 142.00m		1	7.00	(3.1+3.2)/2	0.15	3.31	
	Amruthalli 4th Cross							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.9)/2	0.15	9.00	
	Ch 15.00m to 30.00m		1	15.00	(3.9+4.1)/2	0.15	9.00	
	Ch 30.00m to 38.00m		1	8.00	(4.1+4.3)/2	0.15	5.04	
	Cross Road							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.8)/2	0.15	8.89	
	Ch 15.00m to 30.00m		1	15.00	(3.8+4.0)/2	0.15	8.78	
	Ch 30.00m to 40.00m		1	10.00	(4.0+3.8)/2	0.15	5.85	NDD AE(Rsd) 10/1/2020
	Amruthalli Remaining							
	LHS							
	CH 0.00m to 30.00m		1	30.00	1.20	0.15	5.40	
	CH 30.0m to 60.00m		1	30.00	1.20	0.15	5.40	
	CH 60.00m to 90.00m		1	30.00	1.20	0.15	5.40	
	CH 90.00m to 120.00m		1	30.00	1.20	0.15	5.40	
	CH 120.00m to 150.00m		1	30.00	1.20	0.15	5.40	
	CH 150.00m to 170.00m		1	20.00	1.20	0.15	3.60	265.01

Assistant Executive E
Kodigehalli Sub Di
Yelahanka Zone, B.
Bangalore.

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

AE(Rsd) NDD

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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	RHS							
	CH 0.00m to 30.00m		1	30.00	1.20	0.15	5.40	
	CH 30.0m to 60.00m		1	30.00	1.20	0.15	5.40	
	CH 60.00m to 90.00m		1	30.00	1.20	0.15	5.40	
	CH 90.00m to 120.00m		1	30.00	1.20	0.15	5.40	
	CH 120.00m to 150.00m		1	30.00	1.20	0.15	5.40	
	CH 150.00m to 161.00m		1	11.00	1.20	0.15	1.98	
		cum		**Total Quantity**			**293.95**	

12/1/2020

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Item No:- 6							
Item name:-	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)						
Particulars	Length, M	No	Length, M	Total length, M	Density, Kg/M	Quantity, Kg	Remarks
2	3	4	5	6	7	8	9
Date of Mreasurments							
Amruthalli Remaining							
LHS							
Main Bars	0-30M	240	2.80	672.00	0.62	416.64	
Distribution Bars		23	30.00	690.00	0.39	269.10	
Main Bars	30-	240	2.80	672.00	0.62	416.64	
Distribution Bars		24	30.00	720.00	0.39	280.80	
Main Bars	60-90M	240	2.80	672.00	0.62	416.64	
Distribution Bars		23	30.00	690.00	0.39	269.10	
Main Bars	90-	240	2.80	672.00	0.62	416.64	
Distribution Bars		24	30.00	720.00	0.39	280.80	
Main Bars	20-150M	240	2.80	672.00	0.62	416.64	
Distribution Bars		23	30.00	690.00	0.39	269.10	
Main Bars	150-	160	2.80	448.00	0.62	277.76	
Distribution Bars		24	20.00	480.00	0.39	187.20	
RHS							
Main Bars	0-30M	240	2.80	672.00	0.62	416.64	
Distribution Bars		23	30.00	690.00	0.39	269.10	
Main Bars	30-	240	2.80	672.00	0.62	416.64	
Distribution Bars		24	30.00	720.00	0.39	280.80	
Main Bars	60-90M	240	2.80	672.00	0.62	416.64	
Distribution Bars		23	30.00	690.00	0.39	269.10	
Main Bars	90-	240	2.80	672.00	0.62	416.64	
Distribution Bars		24	30.00	720.00	0.39	280.80	
Main Bars	20-150M	240	2.80	672.00	0.62	416.64	
Distribution Bars		23	30.00	690.00	0.39	269.10	
Main Bars	150-	88	2.80	246.40	0.62	152.77	
Distribution Bars		24	11.00	264.00	0.39	102.96	
						7624.89	
	Tonne		Total Quantity			7.62	

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Item No:- 7								
Item name:-	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)							
SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Vayunandana Layout							
	4th cross							
	Ch 0.00m to 15.00m		2	15.00		0.10	3.00	
	Ch 15.00m to 30.00m		2	15.00		0.10	3.00	
	Ch 30.00m to 45.00m		2	15.00		0.10	3.00	
	Ch 45.00m to 60.00m		2	15.00		0.10	3.00	
	Ch 60.00m to 76.00m		2	16.00		0.10	3.20	
	2nd cross							
	Ch 0.00m to 15.00m		2	15.00		0.10	3.00	
	Ch 15.00m to 30.00m		2	15.00		0.10	3.00	
	Ch 30.00m to 45.00m		2	15.00		0.10	3.00	
	Ch 45.00m to 60.00m		2	15.00		0.10	3.00	
	Ch 60.00m to 75.00m		2	15.00		0.10	3.00	
	Ch 75.00m to 86.00m		2	11.00		0.10	2.20	
	Jakkur layout							
	11th B cross							
	Ch 0.00m to 15.00m		2	15.00		0.10	3.00	
	Ch 15.00m to 30.00m		2	15.00		0.10	3.00	
	Ch 30.00m to 45.00m		2	15.00		0.10	3.00	
	Ch 45.00m to 60.00m		2	15.00		0.10	3.00	
	Ch 60.00m to 75.00m		2	15.00		0.10	3.00	
	Ch 75.00m to 90.00m		2	15.00		0.10	3.00	
	Ch 90.00m to 105.00m		2	15.00		0.10	3.00	
	Ch 105.00m to 120.00m		2	15.00		0.10	3.00	
	Ch 120.00m to 135.00m		2	15.00		0.10	3.00	
	Ch 135.00m to 142.00m		2	7.00		0.10	1.40	

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Amruthalli 4th Cross							
Ch 0.00m to 15.00m		2	15.00		0.10	3.00	
Ch 15.00m to 30.00m		2	15.00		0.10	3.00	
Ch 30.00m to 38.00m		2	8.00		0.10	1.60	
Amruthalli Remaining							
LHS							
CH 0.00m to 30.00m		4	30.00		0.90	108.00	
CH 30.0m to 60.00m		4	30.00		0.90	108.00	
CH 60.00m to 90.00m		4	30.00		0.90	108.00	
CH 90.00m to 120.00m		4	30.00		0.90	108.00	
CH 120.00m to 150.00m		4	30.00		0.90	108.00	
CH 150.00m to 170.00m		4	20.00		0.90	72.00	
RHS							
CH 0.00m to 30.00m		4	30.00		0.90	108.00	
CH 30.0m to 60.00m		4	30.00		0.90	108.00	
CH 60.00m to 90.00m		4	30.00		0.90	108.00	
CH 90.00m to 120.00m		4	30.00		0.90	108.00	
CH 120.00m to 150.00m		4	30.00		0.90	108.00	
CH 150.00m to 161.00m		4	11.00		0.90	39.60	
	Sqm			**Net Qty**		**1260.00**	
				Qty Limited To		**1254.60**	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Item No:- 5								
Item name:-	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO.							
SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Bottom							
	Amruthalli Remaining							
	LHS							
	CH 0.00m to 30.00m		1	30.00	1.00	0.15	4.50	
	CH 30.0m to 60.00m		1	30.00	1.00	0.15	4.50	
	CH 60.00m to 90.00m		1	30.00	1.00	0.15	4.50	
	CH 90.00m to 120.00m		1	30.00	1.00	0.15	4.50	
	CH 120.00m to 150.00m		1	30.00	1.00	0.15	4.50	
	CH 150.00m to 170.00m		1	20.00	1.00	0.15	3.00	
	RHS							
	CH 0.00m to 30.00m		1	30.00	1.00	0.15	4.50	
	CH 30.0m to 60.00m		1	30.00	1.00	0.15	4.50	
	CH 60.00m to 90.00m		1	30.00	1.00	0.15	4.50	
	CH 90.00m to 120.00m		1	30.00	1.00	0.15	4.50	
	CH 120.00m to 150.00m		1	30.00	1.00	0.15	4.50	
	CH 150.00m to 161.00m		1	11.00	1.00	0.15	1.65	
	Side Wall							
	Amruthalli Remaining							
	LHS							
	CH 0.00m to 30.00m		2	30.00	0.15	0.90	8.10	
	CH 30.0m to 60.00m		2	30.00	0.15	0.90	8.10	
	CH 60.00m to 90.00m		2	30.00	0.15	0.90	8.10	
	CH 90.00m to 120.00m		2	30.00	0.15	0.90	8.10	
	CH 120.00m to 150.00m		2	30.00	0.15	0.90	8.10	
	CH 150.00m to 170.00m		2	20.00	0.15	0.90	5.40	
	RHS							
	CH 0.00m to 30.00m		2	30.00	0.15	0.90	8.10	
	CH 30.0m to 60.00m		2	30.00	0.15	0.90	8.10	
	CH 60.00m to 90.00m		2	30.00	0.15	0.90	8.10	
	CH 90.00m to 120.00m		2	30.00	0.15	0.90	8.10	
	CH 120.00m to 150.00m		2	30.00	0.15	0.90	8.10	
	CH 150.00m to 161.00m		2	11.00	0.15	0.90	8.10	
		cum			Net Qty		2.97	
							139.02	

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Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Item No:- 3							
Item name:-	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)(P-147., It No: 19.60)						
No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
	2	3	4	5.00	6.00	7.00	8.00	9
1	Date of Mreasurments							
	Vayunandana Layout							
	4th cross							
	Ch 0.00m to 15.00m		1	15.00	(5.4+4.7)/2	0.20	15.15	
	Ch 15.00m to 30.00m		1	15.00	(4.7+5.7)/2	0.20	15.60	
	Ch 30.00m to 45.00m		1	15.00	(5.7+5.1)/2	0.20	16.20	
	Ch 45.00m to 60.00m		1	15.00	(5.1+4.3)/2	0.20	14.10	
	Ch 60.00m to 76.00m		1	16.00	(4.3+3.3)/2	0.20	12.16	
	2nd cross							
	Ch 0.00m to 15.00m		1	15.00	(4.4+4.0)/2	0.20	12.60	
	Ch 15.00m to 30.00m		1	15.00	(4.0+4.4)/2	0.20	12.60	
	Ch 30.00m to 45.00m		1	15.00	(4.4+4.8)/2	0.20	13.80	
	Ch 45.00m to 60.00m		1	15.00	(4.8+4.9)/2	0.20	14.55	
	Ch 60.00m to 75.00m		1	15.00	(4.9+4.2)/2	0.20	13.65	
	Ch 75.00m to 86.00m		1	11.00	(4.2+4.8)/2	0.20	9.90	
	Jakkur layout							
	11th B cross							
	Ch 0.00m to 15.00m		1	15.00	(5.9+4.3)/2	0.20	15.30	
	Ch 15.00m to 30.00m		1	15.00	(4.3+3.2)/2	0.20	11.25	
	Ch 30.00m to 45.00m		1	15.00	(3.2+3.0)/2	0.20	9.30	
	Ch 45.00m to 60.00m		1	15.00	(3.0+3.3)/2	0.20	9.45	
	Ch 60.00m to 75.00m		1	15.00	(3.3+3.4)/2	0.20	10.05	
	Ch 75.00m to 90.00m		1	15.00	(3.4+3.2)/2	0.20	9.90	
	Ch 90.00m to 105.00m		1	15.00	(3.2+3.7)/2	0.20	10.35	
	Ch 105.00m to 120.00m		1	15.00	(3.7+3.3)/2	0.20	10.50	
	Ch 120.00m to 135.00m		1	15.00	(3.3+3.1)/2	0.20	9.60	
	Ch 135.00m to 142.00m		1	7.00	(3.1+3.2)/2	0.20	4.41	
	Amruthalli 4th Cross							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.9)/2	0.20	12.00	
	Ch 15.00m to 30.00m		1	15.00	(3.9+4.1)/2	0.20	12.00	
	Ch 30.00m to 38.00m		1	8.00	(4.1+4.3)/2	0.20	6.72	
	Cross Road							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.8)/2	0.20	11.85	
	Ch 15.00m to 30.00m		1	15.00	(3.8+4.0)/2	0.20	11.70	
	Ch 30.00m to 40.00m		1	10.00	(4.0+3.8)/2	0.20	7.80	
		cum			Net Qty		312.49	

AE(Civil) 08/03/2020

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AE(Civil)

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Bangalore - 560 092

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Item No:-11

Item name:-

Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Pg.No.176, It.22.6.1)

SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
	Date of Mreasurments							
	Vayunandana Layout							
	4th cross							
	Ch 0.00m to 15.00m		1	15.00	(5.4+4.7)/2	0.10	7.58	
	Ch 15.00m to 30.00m		1	15.00	(4.7+5.7)/2	0.10	7.80	
	Ch 30.00m to 45.00m		1	15.00	(5.7+5.1)/2	0.10	8.10	
	Ch 45.00m to 60.00m		1	15.00	(5.1+4.3)/2	0.10	7.05	
	Ch 60.00m to 76.00m		1	16.00	(4.3+3.3)/2	0.10	6.08	
	2nd cross						0.00	
	Ch 0.00m to 15.00m		1	15.00	(4.4+4.0)/2	0.10	6.30	
	Ch 15.00m to 30.00m		1	15.00	(4.0+4.4)/2	0.10	6.30	
	Ch 30.00m to 45.00m		1	15.00	(4.4+4.8)/2	0.10	6.90	
	Ch 45.00m to 60.00m		1	15.00	(4.8+4.9)/2	0.10	7.28	
	Ch 60.00m to 75.00m		1	15.00	(4.9+4.2)/2	0.10	6.83	
	Ch 75.00m to 86.00m		1	11.00	(4.2+4.8)/2	0.10	4.95	
	Jakkur layout							
	11th B cross							
	Ch 0.00m to 15.00m		1	15.00	(5.9+4.3)/2	0.10	7.65	
	Ch 15.00m to 30.00m		1	15.00	(4.3+3.2)/2	0.10	5.63	
	Ch 30.00m to 45.00m		1	15.00	(3.2+3.0)/2	0.10	4.65	
	Ch 45.00m to 60.00m		1	15.00	(3.0+3.3)/2	0.10	4.73	
	Ch 60.00m to 75.00m		1	15.00	(3.3+3.4)/2	0.10	5.03	
	Ch 75.00m to 90.00m		1	15.00	(3.4+3.2)/2	0.10	4.95	
	Ch 90.00m to 105.00m		1	15.00	(3.2+3.7)/2	0.10	5.18	
	Ch 105.00m to 120.00m		1	15.00	(3.7+3.3)/2	0.10	5.25	
	Ch 120.00m to 135.00m		1	15.00	(3.3+3.1)/2	0.10	4.80	
	Ch 135.00m to 142.00m		1	7.00	(3.1+3.2)/2	0.10	2.21	

AE(NS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Amruthalli 4th Cross							
Ch 0.00m to 15.00m		1	15.00	(4.1+3.9)/2	0.10	6.00	
Ch 15.00m to 30.00m		1	15.00	(3.9+4.1)/2	0.10	6.00	
Ch 30.00m to 38.00m		1	8.00	(4.1+4.3)/2	0.10	3.36	
Cross Road							
Ch 0.00m to 15.00m		1	15.00	(4.1+3.8)/2	0.10	5.93	
Ch 15.00m to 30.00m		1	15.00	(3.8+4.0)/2	0.10	5.85	
Ch 30.00m to 40.00m		1	10.00	(4.0+3.8)/2	0.10	3.90	
	cum		Total Quantity			156.25	

Item No:-12

Item name:- Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.(Pg.No.176, It.22.7)

L No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Vayunandana Layout							
	4th cross							
	Ch 0.00m to 15.00m		1	15.00	(5.4+4.7)/2		75.75	
	Ch 15.00m to 30.00m		1	15.00	(4.7+5.7)/2		78.00	
	Ch 30.00m to 45.00m		1	15.00	(5.7+5.1)/2		81.00	
	Ch 45.00m to 60.00m		1	15.00	(5.1+4.3)/2		70.50	
	Ch 60.00m to 76.00m		1	16.00	(4.3+3.3)/2		60.80	
	2nd cross							
	Ch 0.00m to 15.00m		1	15.00	(4.4+4.0)/2		63.00	
	Ch 15.00m to 30.00m		1	15.00	(4.0+4.4)/2		63.00	
	Ch 30.00m to 45.00m		1	15.00	(4.4+4.8)/2		69.00	
	Ch 45.00m to 60.00m		1	15.00	(4.8+4.9)/2		72.75	
	Ch 60.00m to 75.00m		1	15.00	(4.9+4.2)/2		68.25	
	Ch 75.00m to 86.00m		1	11.00	(4.2+4.8)/2		49.50	
	Jakkur layout							
	11th B cross							
	Ch 0.00m to 15.00m		1	15.00	(5.9+4.3)/2		76.50	
	Ch 15.00m to 30.00m		1	15.00	(4.3+3.2)/2		56.25	
	Ch 30.00m to 45.00m		1	15.00	(3.2+3.0)/2		46.50	
	Ch 45.00m to 60.00m		1	15.00	(3.0+3.3)/2		47.25	
	Ch 60.00m to 75.00m		1	15.00	(3.3+3.4)/2		50.25	
	Ch 75.00m to 90.00m		1	15.00	(3.4+3.2)/2		49.50	
	Ch 90.00m to 105.00m		1	15.00	(3.2+3.7)/2		51.75	
	Ch 105.00m to 120.00m		1	15.00	(3.7+3.3)/2		52.50	
	Ch 120.00m to 135.00m		1	15.00	(3.3+3.1)/2		48.00	
	Ch 135.00m to 142.00m		1	7.00	(3.1+3.2)/2		22.05	
	Amruthalli 4th Cross							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.9)/2		60.00	
	Ch 15.00m to 30.00m		1	15.00	(3.9+4.1)/2		60.00	
	Ch 30.00m to 38.00m		1	8.00	(4.1+4.3)/2		33.60	
	Cross Road							
	Ch 0.00m to 15.00m		1	15.00	(4.1+3.8)/2		59.25	
	Ch 15.00m to 30.00m		1	15.00	(3.8+4.0)/2		58.50	
	Ch 30.00m to 40.00m		1	10.00	(4.0+3.8)/2		39.00	
		Sqm		Total Quantity			1562.45	

Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore - 560 092

Assistant Executive Engineer.
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Yelahanka Zone, B.B.M.P.,
Bangalore

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Item No:- 8								
Item name:-	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)							
SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Amruthalli Remaining							
	LHS							
	CH 0.00m to 30.00m		50		0.60	0.90	27.00	
	CH 30.0m to 60.00m		50		0.60	0.90	27.00	
	CH 60.00m to 90.00m		50		0.60	0.90	27.00	
	CH 90.00m to 120.00m		50		0.60	0.90	27.00	
	CH 120.00m to 150.00m		50		0.60	0.90	27.00	
	CH 150.00m to 170.00m		34		0.60	0.90	18.36	
	RHS							
	CH 0.00m to 30.00m		50.00		0.60	0.90	27.00	
	CH 30.0m to 60.00m		50.00		0.60	0.90	27.00	
	CH 60.00m to 90.00m		50.00		0.60	0.90	27.00	
	CH 90.00m to 120.00m		50.00		0.60	0.90	27.00	
	CH 120.00m to 150.00m		50.00		0.60	0.90	27.00	
	CH 150.00m to 161.00m		20.00		0.60	0.90	10.80	
		Sqm				Net Qty	299.16	

Item name:- 9	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x150x500 mm and finished with CM 1:3 plastering and finishing cutting etc., complete.Pg No. 27, Item No.5.29.1

SL No	Particulars	Unit	Nos	L	B	D	Qty	Remark
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Amruthalli Remaining							
	LHS							
	CH 0.00m to 30.00m		1	30.00			30.00	
	CH 30.0m to 60.00m		1	30.00			30.00	
	CH 60.00m to 90.00m		1	30.00			30.00	
	CH 90.00m to 120.00m		1	30.00			30.00	
	CH 120.00m to 140.00m		1	20.00			20.00	
	RHS						0.00	
	CH 0.00m to 30.00m		1	30.00			30.00	
	CH 30.0m to 60.00m		1	30.00			30.00	
	CH 60.00m to 90.00m		1	30.00			30.00	
	CH 90.00m to 120.00m		1	30.00			30.00	
	CH 120.00m to 140.00m		1	20.00			20.00	
							280.00	
					TOTAL(total length/0.45)		622.22	
		Nos				Net Qty	622.00	

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Item No:- 10								
Item name:-	KSRB 5-9.1:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 124 / Item No. 15.80							
No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Amruthalli Remaining							
	LHS							
	CH 0.00m to 30.00m		67.00	0.45			30.15	
	CH 30.0m to 60.00m		67.00	0.45			30.15	
	CH 60.00m to 90.00m		67.00	0.45			30.15	
	CH 90.00m to 120.00m		66.00	0.45			29.70	
	CH 120.00m to 140.00m		44.00	0.45			19.80	
	RHS							
	CH 0.00m to 30.00m		67.00	0.45			30.15	
	CH 30.0m to 60.00m		67.00	0.45			30.15	
	CH 60.00m to 90.00m		67.00	0.45			30.15	
	CH 90.00m to 120.00m		66.00	0.45			29.70	
	CH 120.00m to 140.00m		44.00	0.45			19.80	
		Sqm			Net Qty		279.90	
Item No:- 13								
Item name:-	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)							
No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
				Qty same as Item No (1+2)			1420.86	
		cum			Net Qty		1420.86	

(1) 468.74
(2) 952.13
1420.87

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub Division

Executive Engineer
Byatarayanapura Division

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palike
Bangalore - 560 092

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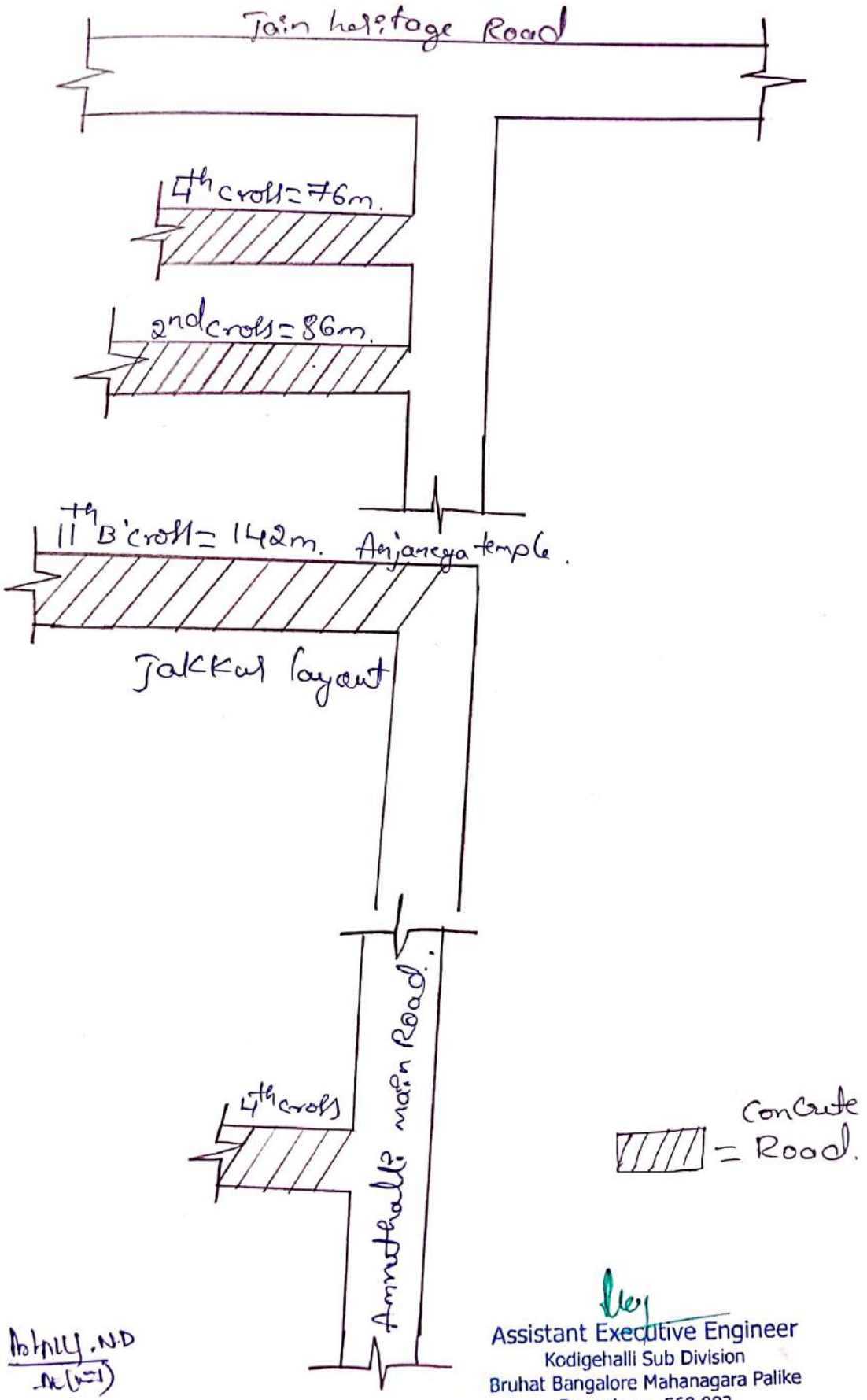
me of work:- Improvements to roads & drains of Kempapura janatha Colony & Surrounding areas in ward no.07, Byatarayanapura.



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